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# Accelerating Oracle Database Upgrade for a Leading US-based Lighting Manufacturer

 **Case study**





## Overview

### Connected and intelligent lighting solutions manufacturer

Our client is a leading US-based manufacturer of LED lighting products. The company offers a range of connected and intelligent lighting solutions for businesses, communities, and consumers. With over 2,500 patent portfolios, our client has a culture of leveraging best-in-class technologies to create innovative solutions for every customer's lighting needs.

The client was using the 11g version of the Oracle Database for E-business Suite to run on an Exadata machine that reached end-of-life support and eventually disqualified for Oracle Platinum support for Exadata machines. The new Oracle Database 19c is a long-term release and offers premium support with advanced features. These features would also benefit the client while moving to the cloud. We helped the client transition to this new database in record time while ensuring compliance and fixing security loopholes.



## Challenges

### Sparkling up the database

The client wanted to upgrade to Oracle Database 19c, as the support for the older version ended. Exadata machine's Oracle Platinum support was not active due to the lower database version. The audit team reported security vulnerabilities and non-compliance during defined audit policies.

The upgrade had to happen seamlessly with minimum disruption to daily activities and strategic priorities. It had to be compliant and accommodate several third-party integrations. In addition, the business had defined timelines and proposed limited downtime of the critical production environment.





## Solution

### Brightening up the future

We enabled the client to seamlessly transition from the older database version to the latest Oracle Database 19c with a hybrid cloud and on-prem infrastructure. This version offered several performance features such as:



**Easy update on all tables:** In the previous versions, only the Global Temp Tables on the Active Data Guard standby database could be updated. The Oracle 19c version ensures data updates of regular tables as well.



**High-speed data ingestion:** This functionality was added to enable fast data inserts into Oracle Database.



**Faster data retrieval with automatic indexing:** Oracle Database 19c identifies candidate indexes, verifies their effectiveness, performs online validations, and implements the indexes wherever relevant. Hybrid partition tables: For manageability and performance benefits through segregated data.



**JSON improvements:** The materialized view provides better performance for accessing data.

We also introduced a few tools and accelerators in the project, such as P4 upgrade methodology, upgrade automation, and best practices to reduce production downtime. The Project team ensured the entire project execution within strict timelines with no post-upgrade issues. This helped run the business without disrupting the regular functioning of the employees and management. With the advanced features of the new database version at disposal, client teams could distribute the workload on Disaster Recovery for greater efficiency and performance.

We also leveraged our regulatory know-how to guarantee compliance after the migration was completed. A stringent audit identified security vulnerabilities in the earlier system. These were fixed by applying the latest Patch Set Updates (PSU) and Critical Patch Update (CPU) to the environment. The entire transition, including adequate disaster recovery and third-party integrations, was completed within four months with a downtime of only 38 hours.



## Impact

**The client achieved the following benefits after its seamless upgrade to the Oracle 19c Database:**

- Five years of premier support and three years of extended support offered by Oracle
- Enhanced security and disaster recovery
- Advanced database infrastructure for greater enterprise velocity

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